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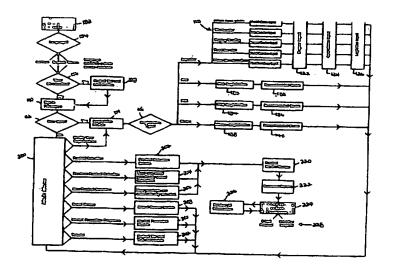
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(54) Title: METHOD AND SYSTEM FOR MULTILINGUAL ONLINE PURCHASING



(57) Abstract

A system for facilitating, selecting, ordering, and purchasing of products includes a purchase-facilitating, software-implemented computer system located near a buyer, a trade-facilitating hub, and one or more vendors. Using the purchase-facilitating program, the buyer enters business and trade information and also enters information regarding the various products (available from vendors) that the buyer desires to purchase (200). After buyer-information and product-selection information have been entered in the purchase-facilitating program, that information is combined into a composite document which is sent (preferably via facsimile or internet) (228) to the trade-facilitating hub. At the hub, the composite document is converted into multiple documents which are sent to each corresponding vendor. The hub then forwards responses from the vendors to the buyer. If the buyer, hub, and vendors use different languages, then the preferred system translates all correspondence into the appropriate language for the receiving party prior to sending.

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METHOD AND SYSTEM FOR MULTILINGUAL ONLINE FURCHASING

Cross-Reference to Related Applications

This application claims priority from U.S. Provisional Patent

Application Serial No. 60/006,604 entitled "METHOD AND SYSTEM FOR FACILITATING SELECTING, ORDERING AND PURCHASING OF PRODUCTS" filed on November 9, 1995.

Technical Field

The present invention is generally related to a method and a system for facilitating selecting, ordering and purchasing of products. The invention creates a composite request-for-price-quotation (RFQ) which is intended to be distributed to multiple vendors, wherein such RFQ is produced based on a buyer's requirements and preferences. More particularly, the invention concerns a user interface for a computer system facilitating product selection and purchasing. The invention may also include a language-variable user interface and product database.

Background

Many types of business entities purchase products for reselling or distributing. In any particular trade industry, there may be thousands of products available, and for each of those products there may be thousands of varieties and brands. For example, in the food industry, canned corn may be available in ten different sizes, in a dozen or more varieties (such as whole kernel, creamy, no salt, etc.), and in a hundred different brands. Also, there may be hundreds of vendors that supply canned corn, which vendors may have particular brands, sizes and varieties only during certain parts of the year. To make purchasing decisions, a buyer has thousands choices for each particular food product.

In addition, once a buyer has selected a product and a vendor, the buyer must obtain from the vendor an estimate of the supply terms and price. Presently, this process typically involves a series of letters and faxes sent back-and-

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forth between the buyer and each vendor to specify the products available, delivery, price and other supply-related terms.

The complexity of conventional food-product purchasing is exacerbated when products are being imported. As a practical matter, it is difficult for a foreign buyer and domestic vendor to communicate in a timely manner because of language and time-zone differences. For example, a buyer in Germany may wish to purchase canned hams from a vendor in Portland, Oregon, U.S.A. If neither an interpreter or a common language exists, then the language difference will require translation services, which adds cost and time to a time-critical negotiation. The practical result is such a situation is that the German buyer will not even make the request.

Disclosure of the Invention

The invented method and system facilitates a buyer's selection, order and purchase of products, which products are to be shipped from vendors to the buyer. In addition, such trade facilitation is enhanced by a computer system with separate, but interrelated, vendor and product fields in the user interface, wherein the user interface and product database are language-variable.

In its preferred embodiment, the invented system includes a purchase-facilitating, software-implemented computer system at the buyer's site, a trade-facilitating hub and one or more vendors. Using the purchase-facilitating program the buyer enters business and trade information and also enters information regarding the various products (available from vendors) that the buyer would like to purchase. After buyer-information and product-selection information have been entered in the purchase-facilitating program, such information is combined into a composite document. The document is sent (preferably via facsimile or internet) to the trade-facilitating hub.

At the hub, the composite document is converted into multiple documents which are sent to each respective vendor. Such conversion may be done electronically and automatically. The hub then forwards responses from the

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vendors to the buyer. If the buyer, hub and vendors use different languages, then the preferred system translates all correspondence into the appropriate language for the receiving party prior to sending.

These and other advantages and objects of the present invention will be more readily understood after consideration of the drawings and the detailed description of the preferred embodiment which follows.

Brief Description of the Drawings

Figs. 1-38 are color screen prints of representative successive screens presented to a buyer during an exemplary execution of a purchase-facilitating program, which program is constructed in accordance with the invented method and system, wherein such screen prints also illustrate the user interface.

Fig. A is a flowchart illustrating a preferred implementation of a purchasing-program, which program is constructed in accordance with the invented system and method and produces the screens illustrated by Figs. 1-38.

Detailed Description of the Drawings and Best Mode for Carrying Out the Invention

The preferred embodiment and implementation of the invented system and method is described in a food-industry application. In particular, it is described below for use by food reselling and distributing businesses. However, those skilled in the art understand that the invention may be used in any industry for any type of user, including an individual consumer who makes product selections via a home-shopping, television or cable network. References to the food industry and food products are presented for illustrative purposes and do not limit applications for the invention to other industries or users.

One way to characterize the invention is a product selection and ordering system that allows a buyer to select desired products from a directory of products offered by suppliers, and to transmit an order for such selected products from a corresponding supplier. The system includes a communication network linking such a buyer and such suppliers, which network includes a buyer interface

(also referred to as a user interface). A directory of products offered by the suppliers is also located on the network. The buyer interface allows the buyer to specify a multiple-product order from a buyer-chosen supplier, and to transmit the order to the buyer-chosen supplier.

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The above invention will be described below in the context of a food-product buyer, or user. That user will use a to-be-described purchase-facilitating program that is loadable on a personal computer. The preferred communication network between the user, to-be-described intermediary or trade-facilitating hub, and suppliers involves a telecommunication network usable via modem communication between the computers of each member of the system, i.e. the user, intermediary and suppliers.

In general, the preferred purchase-facilitating program, which is constructed in accordance with the preferred embodiment and implementation of the invented system and method, includes three main sections. The first or preliminary section gathers information about the user and their preferences. The second section is the product selection and review, where the user selects desired products. The third or wrap-up section is where the user-specified ordering information is collected, organized and transmitted to a transaction facilitator (also referred to as a trade-facilitating hub or intermediary) for bid distribution.

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The program will be described by referring to the flowchart in Fig. A and also to the exemplary screens shown in Figs. 1-38. When the program is executed (at 102 in Fig. A), a title screen, shown in Fig. 1, is displayed. At 104 and in Fig. 2, the user is asked to select their language of choice (hereinafter, the local language). The languages available in the preferred embodiments are English, French, Spanish, German, Italian and Portuguese. The local language selected by the user is the language used throughout the remaining execution of the program. All questions asked and information presented will be in the local language of the user. Specifically, a source database exists for each language. Thus, in the preferred embodiment six source databases exist. Each communicative message or

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term, such as questions, responses, products, etc., has an indexable code associated with it. Each language's source database has that language's particular interpretation of the code associated message or term.

The following table (TABLE I) illustrates two source databases. A common exemplary and arbitrary index code is provided in the table and each source database has a specific associated term in a particular language:

TABLE I

Code	English	French
123	Cocoa & Milk Modifiers	Cocoa & lait modifiés
129	Diet Food	Produit Diététique
345	Cereal	Cereales

After the local language has been selected, at 106 and 108 the user may review the introduction (see Fig. 1). At 110, and shown in Fig. 4, the user is asked to sign-in or indicate that they are a new user. At 112, the program asks whether the user has previously registered on the program. If so, then an existing record is associated with the user and the program proceeds to the main menu at 200 (see Fig. 13). However, if the user has not previously registered, then the registration module of the program is implemented at 114. At 116 and shown in Fig. 5, the user selects the registration type of their organization. In general, these organizations are either commercial (business) entities or governmental agencies.

More particularly, a commercial entity may be a domestic commercial entity or a foreign importer. In the preferred embodiment of the invention, the Importer is the only classification of commercial entity available. Regarding governmental agencies, the preferred embodiment includes a) U.S. Department of Agriculture Foreign Agricultural Service (FAS); b) U.S. Department of Commerce U.S. & Foreign Commercial Service (FCS); and c) Department of Agriculture (States). Each classification of user has a classification-specific

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registration process where only questions related to that particular classification are asked. Of course, the type of user is not limited to those given above and may be extended to include a wide variety of users while remaining within the spirit and scope of the invention. For example, a consumer is a type of user (other than commercial entity and government agency) that is presently envisioned for versions of the invention.

As an example of the registration process, it will be assumed that the user is an Importer. At 118 and shown in Fig. 6, the Importer is asked to identify the specific classification that best identifies their operations. As indicated at 120 and shown in Fig. 6, the Importer may select any available classification such as retail chain, wholesaler, buying/trade organization, product-service business (such as a restaurant) or a mass merchandiser. Information requested from the user varies depending on user classification. For example, a buying/trade organization would not be asked how many stores they have, whereas a retail chain would.

If the user were an FCS, then a screen such as Fig. 11 would be displayed at block 134 of the program illustrated by Fig. A. After that information is entered, then the user is asked information about the recommended users at 136 (see Fig. 12).

If the user classification is a retail chain, the following information, as shown in Fig. 7, would be requested: company name, company's address (street and mailing), phone number, facsimile number, electronic mail address, total annual sales, imports as a percentage of sales, sales accounts, number of employees and how long the company has been in business. Any of these latter requests (which have down arrows in the figures) include pull-down, pre-defined selections. For example, in response to total annual sales, the user may select any one of a number of ranges such as: (1) less than 5 million, (2) 5 to 20 million, (3) 20 to 50 million and so forth.

After the above general information regarding the company is entered into the program, the Importer is asked, as shown in Fig. 8, for additional

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information regarding the particular individual(s) using the system. In addition to the standard identifying information (such as address, phone number, etc.), the individual is asked to select the areas or types of products that the individual is responsible for purchasing. This allows for future options within the system to be personalized to the particular individual within a user entity using it. For example, if an individual indicated that they were responsible for purchasing automobile parts and camping gear for a retail chain, the system would not provide that individual any future information regarding any areas outside of those, unless the individual specifically requested it. Figs. 7 and 8 also show that the program accommodates organization with multiple buyers, and the buyer input block at 122 of Fig. A is depicted in Figs. 7 and 8.

Additional information about the Importer is requested at 124 and such request is shown in Fig. 9. That additional information is particularly useful to the trade-facilitating hub and vendors (or suppliers) in determining whether a business relationship with the Importer is desirable. As shown in Fig. 9, if the user is a retail chain, the user may be asked the number of stores in particular markets (i.e., countries). Also, the user may be asked for their credit references and trade references.

At 126 and shown in Fig. 10, the user provides logistical preferences. The user is asked his or her preferred way of receiving the goods. If the goods are to be imported, the port of importation is selected along with alternative ports if the preferred port is unavailable. Also, the INCO terms of sale are selected (such as Ex Factory, FOB Port of Export, C&F Port of Import, CIF Port of Import and Delivered Duty Paid). The user is also asked to select a preferred carrier and their account number for that carrier. Also, other miscellaneous shipping information is requested.

After the user information is selected and entered into the system, the program returns to the main menu at 200 (see Fig. 13). From the main menu, the user can proceed to one of several other modules, such as the Product Selection

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module. From the main menu, the user may preferably select Product Selection module at 202, Previous Selections module at 204, New Products module at 206, Brand Names module at 208, Market Promotion module at 210 and Tutorial module at 212. Also, the user may choose from the Main Menu to modify user registration. Discussion of the Product Selection module will be described.

During the Previous Selections module at 204, the system retrieves and displays for the user a list of previously selected products and the terms of an order for such products. The user is free to remove or add products from the selected list. When finished, this module proceeds to the Product Review module at 220.

During the New Products module at 206, the user is presented with a list of only the new products which are available and the user may select from among those new products. If the user is only interested in the most recent product offerings, then this module is preferred because it eliminates undesired information. The user is periodically provided with an updated list of available products with all new products appropriately labeled. After this module, the user proceeds to the Product Review module at 220.

In the Brand Names module at 208, the user is given a list of available brand names and related information about each brand. In the Market Promotion module at 210, the user is given information regarding various promotional programs that particular manufacturers, vendors or trade organization may be running to encourage purchase of particular products or purchase from particular sources. For example, the U.S. Meat Board may give a ten percent discount on all orders for beef which will ultimately be sold in Japan. This information may help the buyer decide what products to select. In the Tutorial module at 212, the user is taught about how to use the program. After the Brand Names module, Market Promotion module or Tutorial module, the program returns to the main menu at 200.

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In general, product selection (at 202, 204 or 206) and product review is the second main section of the program. Within the Product Selection module at 202, the user selects particular products for ordering. Examples of product selection screens are shown in Figs. 14-17. The user may select particular products in a number of different ways. Preferably, the categories of products related to the user's interest area are listed in a hierarchical fashion, and the user may select by navigating through the hierarchy to find a particular product for which they wish to receive a bid from a vendor.

For example, if the user's general interest area includes food and grocery items, the major food-product categories in the hierarchy appears on the screen, as shown in Fig. 14. The major categories may include labels such as bakery items, dairy products, meat, produce, canned goods, frozen foods, etc. If, as shown in Fig. 14, the user selects cereal, then the screen will change, as shown in Fig. 15, to show the minor categories under the major category cereal. The minor categories of cereal may include hot cereals and ready-to-eat cereals. If, as shown in Fig. 15, the user selects ready-to-eat cereal, then the screen will change, as shown in Fig. 16, to show the item list under the minor category of ready-to-eat cereals. The item list of ready-to-eat cereals may include any type of ready-to-eat cereals, such as apple cinnamon toasted oats, bran flakes, cocoa crunches, corn flakes, crisp crunch, crispy rice, fruit rings, etc.

In Fig. 16, the item "CEREAL CRISPY RICE *New*" is highlighted (indicating that it is selected). As is obvious from the designation, "*New*" means the particular item is a new product. Once the user selects this item, it appears in the Product Selection List shown on the right-side of Fig. 16.

In general, the user selects particular products for which they want to bid, and those products go into a list called the Product Selection List in which the user will later provide additional information which can be used to request and obtain a user-specified bid.

Another way that the user may find a particular desired product is to use the systems search procedure shown on the right-side of Fig. 16 with a heading: "HS Code or Key Word Search". The user may input a particular product code or the key words related to products and the system will search for them.

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In the Product Selection module, the user has the option to choose languages other than the one selected at the beginning of the program. This allows the user to see what the products are called in different languages. This may be particularly useful if the user knows the name of a product in one language, but does not know the name in the local language.

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Fig. 17 shows a Product Selection List after the user has selected three different products. After a list of items has been selected, the program proceeds to block 220, the Product Review module, where the user inputs information about the chosen product, including the time and manner in which the product is to be shipped. The screens and a visual representations of the user-interface of this module are shown in Figs. 18 and 19.

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The screen/user-interface (as shown in Figs. 18 and 19) of the Product Review module includes two main sections: the product specification section (shown in Figs. 18 and 19 as a teal-colored, square-shaped information box which is framed in brown) and the supplier-information section (shown in Figs. 18 and 19 as a blue-colored, dipper-shaped information box which is also framed in brown).

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The program correlates user-specified information so that information entered or selected in one of the program sections may affect the information displayed in another section. On the top of the Product Review screen (as shown in Figs. 18 and 19) next to the heading "Product Description" is the particular product from the Product Selection List (created in the Product Selection module). The user may change which of the products from the list is for the Product Review. For example, Fig. 18 shows the "CORN WHOLE KERNEL" is the product of the list for this Product Review.

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The product specification section includes options related to designating the specifics of the product that the user wishes to order. For example, the option may include the following: package size, grade of the product and brand of the product. In addition, the user may select either the metric or English system to display units of measurement. Selecting particular options may cause other information in this and the supplier section to change. For example as shown in Fig. 19, if the product is corn whole kernel, the user may select an eight ounce package, a grade of Grade A Fancy and a brand such as NATURE'S PRIDE. As shown in Fig. 19, once a particular brand is selected, an image or picture of the particular product appears in a small product window so that the user may see what the product actually looks like. As seen in Fig. 19, the dimensions of the case and pallet used to transport the particular product appears in the product specification section.

The program also allows the user to simplify or limit their choice. For example, it is not necessary for the user to select a particular brand or a particular grade. If they choose, they can select "ALL" for brand and grade to leave their options open to any brand or any grade of that available product. In addition, the user can also leave open the option of product size or the user can specify product size.

Alternatively, as part of the product specification process, the user may be presented with a series of images, with each image representing the particular brand of a product being reviewed. The user may select the particular brand of the product they want by clicking on the image or selecting the image they desire.

Also presented on the screen/user-interface shown in Fig. 19 is a supplier-information section. Included in supplier-information is the following: a) an order/acquisition calendar; b) an option to see other products available from a particular supplier; c) supplier-specific information; and d) a map depicting the country or region in which the suppliers are located.

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The order/acquisition calendar typically includes a series of colorable boxes numbered 1 through 12 (for each month of the year) which indicate the availability or other information related to the product selected from a particular supplier. For example, as shown in Figs. 18 and 19, the order/acquisition calendar includes three specific calendars, namely, a production calendar, an available-to-ship calendar and a best-time-to-order calendar. When a particular supplier or suppliers have been selected, these calendars indicate when orders may be received and shipment expected. In the example shown in Fig. 19, the product from the particular supplier is produced in months 8 and 9 (i.e., August and September), is available all-year-round, and is best ordered from May through July.

Also included in the supplier-information section is an option to see other products available from a particular supplier. Also, when a particular supplier is selected, additional information regarding that supplier may be presented. Such information may include certifications or other trade or product-related material. That information may also include a list of ingredients or components found in a particular product from a particular supplier. Even though the user has selected a particular product, an individual supplier may have ingredients and components that vary from other suppliers. For example as shown in Fig. 19, the ingredients of NATURE'S PRIDE brand, Grade A Fancy, whole kernel corn may include: corn, water, sugar and salt. Another supplier may include additional items or fewer items (for example, may not include sugar).

Also included in the supplier-information section is a corresponding map. For example, and as depicted in Figs. 18 and 19, the products are being shipped from the United States so a map of the United States is shown. The map may be any geographic or stylized map. In a preferred embodiment, the map is a map of the United States, and on the map are a plurality of cartographically-positioned indicia (e.g., colored dots) indicating the geographical location of particular suppliers. The dots may be colored in such a manner to indicate whether a supplier supplies a particular product. When particular products are selected

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under the product selection screen, dots related to suppliers which do not provide that product dim or turn-off. For example, the map in Fig. 18 includes ten white dots meaning that all ten suppliers provide the product. But after the user selects particular specifications of the product, some of the dots dim (e.g., become gray) to indicate that those suppliers do not have the particular product specified in the product-specification section. As shown in Fig. 19, three supplier-indicating dots are dimmed.

To designate a particular supplier, the user selects the supplier from a pull-down menu in the supplier-information section such as by clicking with a computer mouse the dot on the map corresponding to the supplier. As shown in Fig. 19, when a particular supplier is selected its corresponding dot is highlighted (preferably in red).

Information entered and selected in either section of the Product Review screen/user-interface (shown in Figs. 18 and 19) affects whether and what information is displayed in both sections. As demonstrated above, there is a relationship between product-specification information and supplier information.

Referring to the Product Review module at 220 in Fig. A, and after the user has selected and entered product specification and supplier information, the user is asked to provide more detailed information on shipping the product. As shown in Fig. 20, after the user has asked for the particular item to be added to the bid request, the user is asked for additional shipping information. Next, as shown in Fig. 21, the user is asked their interest level. This informs the vendors how serious the user is and how likely the user is to be a future and frequent customer. Next, as shown in Fig. 22, the user is asked to provide additional logistical information.

After the Product Review module is completed, the user is asked to review all of the information for accuracy, and is asked to enter any additional information which would go to the suppliers in a bid. In the preferred embodiment, the program proceeds to the Selection Review module at 222 (or 226) (see Figs.

23-36). The user is asked to review all information related to the user and the requested products. Figs. 23-36 show the various screens and options preferably available.

At 224 and as shown in Fig. 37, the information entered by the user is collected into a composite request-for-price-quotation (RFQ) document which will be transmitted (or delivered) to the trade-facilitating hub. That document may be reviewed by the user in their local language, but when the document is transmitted, the program allows for it to be transmitted in the language of the hub. For example, if the user is French, they will be reviewing a document in French, but when the document is actually sent to the hub in the United States, the document is sent in English. Preferably, the document is transmitted via facsimile (telecopy) or across the internet via e-mail (as indicated at 228 of Fig. A). Of course, the document may also be sent in any desired way such as by mail or courier.

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Once the hub receives the RFQ, the invention allows for official bid documents (also called trade leads) to be created for each particular supplier where each lead only includes information relevant to that particular supplier. In other words, if the user asked for car batteries and green beans, the supplier of green beans would not receive any information regarding the request for car batteries. An example of such a lead is shown in Fig. 38. The leads received by suppliers include information about the user company including financial-related information such as credit and trade references. To complete the communication, the hub would then receive bid-responsive information back from the suppliers, and transmit that information to the user in the user's local language.

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The preferred embodiment of this system includes a software program at a user's site with an IBM-compatible or MACINTOSH microcomputer. Furthermore, the program is preferably written for use with an operating system having a graphical user interface, such as WINDOWS, WINDOWS 95, WINDOWS NT, OS/2 WARP or SYSTEM 7.x. Also, the program is preferably

written in Visual Basic or Delphi 32. However, an programmer of ordinary skill understands that such program may be written any suitable programming language for use with any operating system. Preferably, the computer includes a modem for transmitting a facsimile or electronic mail. Alternatively, a facsimile document may be printed and then facsimiled through a conventional facsimile machine or via the conventional mail system. The receiver of the information is the tradefacilitating hub which has a business relationship with the user and with a large group of vendors.

Also, the preferred embodiment of the program used by the user,
which program is constructed in accordance with the invention may be described
the following outline:

Screen Definitions for the User Program In Its Preferred Embodiment

- I. Title Screen
- 15 A. Purpose
 - 1. initiates Project Harvest Usage
 - B. Operation
 - 1. program opens to Title Screen when user initiates Project Harvest
- 20 2. displays logo & product title with "SM" notation
 - 3. displays user sign-in text box
 - a. user enters name
 - b. if system doesn't recognize name, user taken to User Registration screens
 - c. if system recognizes name, user taken to Main Menu Screen
 - C. Buttons
 - 1. view introduction
 - a. takes user to introduction screens.

			2. sign-in
			a. takes user into User Registration screens
		D.	Pop-up Window
			1. copyright statement
5		E.	References to drawings
			1. blocks 102-112 in Fig. A
			2. Figs. 1-4
	П.	Intr	oduction System
		A.	Purpose
10			1. informs user about ITG and Project Harvest
		В.	Operation
			 currently under development and inactive
		C.	References to drawings
			1. blocks 106 and 108 in Fig. A
15	Ш.	Use	r Registration Screen
		A.	Purpose
			1. separates users into private and public sector registrations
		B.	Operation
			1. user clicks a button to identify his operating sector
20		C.	Buttons
			1. commercial users/foreign country importer
			2. governmental agencies/foreign agricultural service
			3. governmental agencies/foreign commercial service
			4. governmental agencies/states
25			5. previous
			6. continue
		D.	References to drawings
			1. blocks 114 and 116 of Fig. A
			2. Fig. 5

	IV.	Co	ommercial Users/Foreign Country Importer Screen
		A.	Purpose
			1. identifies user's private sector operations
		B.	Operation
5			 user clicks a button to identify his business type
		C.	Buttons
			1. retail chain
			2. wholesaler
			3. buying/trading organization
10			4. food service
			5. mass merchandiser
			6. previous
			7. continue
		D.	References to drawings
15			1. blocks 116 and 118 in Fig. A
			2. Figs. 5 and 6
	V.	Cor	nmercial Users/Foreign Country Importer/Retail Chain
		A.	Purpose
			1. collects user registration information specific to retail chain
20			operations
		В.	Operation
			 information gathered by entering text data or making
			selections from pull-down menus
		C.	Buttons
25			1. previous
			2. continue
		D.	References to drawings
			1. blocks 118 and 120 in Fig. A
			2. Fig. 6

10

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		•						
VI.	Cor	nmercial Users/Foreign Country Importer/Retail Chain - Company						
	Information Screen							
	A.	Purpose						
		1. collects information about registered user's company						
	B.	Operation						
		1. information gathered by text data entry, pull-down menus						
		and/or operating range selections						
	C.	Buttons						
		1. previous						
		2. continue						
	D.	References to drawings						
		1. block 122 in Fig. A						
		2. Fig. 7						
VII.	Commercial Users/Foreign Country Importer/Retail Chain - Buyer Contact							
	Screen							
	A.	Purpose						
		1. collects information about registered user's buyer contacts						
	B.	Operation						
		1. information gathered by text data entry, pull-down menus						
		and/or operating range selections						
	C.	Buttons						
		1. previous						
		2. continue						
	D.	References to drawings						
		1. block 122 in Fig. A						
		2. Fig. 8						

VIII. Commercial Users/Foreign Country Importer/Retail Chain - Operations Profile Screen

A. Purpose

1.	collects	information	about	registered	user's	company
	operation	ıs				

- B. Operation
 - 1. information gathered by text data entry, pull-down menus and/or operating range selections
- C. Buttons
 - 1. previous
 - 2. continue
- D. References to drawings
- 10 1. block 124 in Fig. A
 - 2. Fig. 9
 - IX. Commercial Users/Foreign Country Importer/Retail Chain Logistical Preferences Screen
 - A. Purpose
- 1. collects information about registered user's preferred shipping arrangements
 - B. Operation
 - 1. information gathered by text data entry, pull-down menus and/or operating range selections
- 20 C. Buttons
 - 1. previous
 - 2. continue
 - D. References to drawings
 - 1. block 126 in Fig. A
- 25 2. Fig. 10
 - X. Commercial Users/Foreign Country Importer/Wholesaler
 - A. Purpose
 - 1. collects user registration information specific to wholesale distribution operations

_	_	
В.	One	ration
- .	Ope	

- 1. currently under development and inactive
- XI. Commercial Users/Foreign Country Importer/Buying-Trading Organization
 - A. Purpose
- 5 1. collects user registration information specific to large scale procurement operations
 - B. Operation
 - 1. currently under development and inactive
 - XII. Commercial User/Foreign Country Importer/Food Service
- 10 A. Purpose
 - collects user registration information specific to food service distribution operations
 - B. Operation
 - 1. currently under development and inactive
- 15 XIII. Commercial Users/Foreign Country Importer/Mass Merchandiser
 - A. Purpose
 - 1. collects user registration information specific to drug & nonfood distribution operations
 - B. Operation
- 20 1. currently under development and inactive
 - XIV. Governmental Agencies/Foreign Agricultural Service
 - A. Purpose
 - identifies user's public sector operations on behalf of U.S.
 Department of Agriculture
- 25 2. identifies local private sector companies as potential Project Harvest users
 - B. Operation
 - 1. information gathered by text data entry, pull-down menus and/or operating range selections

- 1. previous
- 2. continue
- D. References to drawings
- 1. blocks 130 and 132 in Fig. A
- XV. Governmental Agencies/Foreign Commercial Service
 - A. Purpose
 - identifies user's public sector operations on behalf of U.S.
 Department of Commerce
- 10 2. identifies local private sector companies as potential Project Harvest users
 - B. Operation
 - 1. information gathered by text data entry, pull-down menus and/or operating range selections
- 15 C. Buttons
 - 1. previous
 - 2. continue
 - D. References to drawings
 - 1. blocks 134 and 136 in Fig. A
- 20 2. Figs. 11 and 12
 - XVI. Governmental Agencies/State Department of Agriculture
 - A. Purpose
 - 1. identifies user's public sector operations on behalf of U.S. states
- 25 2. identifies local private sector companies as potential Project Harvest users
 - B. Operation
 - 1. currently under development and inactive
 - C. Buttons

BNSDOCID: <WO_____9717663A1_I_>

1. previous

	•	2.	continue
	D.	Referer	nces to drawings
		1. blo	ocks 138 and 140 in Fig. A
5	XVII. Mai	in Menu	
	A.	Ригро	se
		1.	opens program to numerous user-valuable modules
	B.	Opera	tion
		1.	user clicks button to enter desired module
10	C.	Butto	ns
		1.	product selection
		2.	brands
		3.	previous selections
		4.	market promotion programs
15		5 .	modify user registration
		6.	tutorial
		7.	view new items
		8.	previous
		9.	continue
20	D.	Referen	ces to drawings
		1. blo	ck 200 in Fig. A
		2. Fig	. 13
	XVIII.Bran	ds Screen	ı
	A.	Purpo:	se
25		1.	informs user about relative market positioning of brand labels
			offered vis-a-vis product quality
	В.	Opera	tion
		1.	currently under development and inactive
	C.	Referen	ces to drawings

1.	block	208	in	Fig.	Α
----	-------	-----	----	------	---

XIX. Previous Selection Screen

- A. Purpose
 - 1. allows user to retrieve previously saved product selection list and/or search string
- B. Operation
 - 1. currently under development and inactive
- C. References to drawings
 - 1. block 204 in Fig. A
- 10 XX. Market Promotion Programs Screen
 - A. Purpose
 - inform user about special export promotion programs offered by industry trade boards
 - B. Operation
- 15 1. currently under development and inactive
 - C. References to drawings
 - 1. block 210 in Fig. A
 - XXI. Modify User Registration Screen
 - A. Purpose
- 20 allows user to return to registration screens to update/change previous entries
 - B. Operation
 - 1. user clicks button to return to first screen of his user registration type
- 25 C. References to drawings
 - 1. block 114 in Fig. A
 - XXII. Tutorial Screen
 - A. Purpose

1.	inform user about special export promotion programs offer	ered
	by industry trade boards	

- B. Operation
 - 1. currently under development and inactive
- 5 C. References to drawings
 - 1. block 212 in Fig. A

XXIII. View New Products Screen

- A. Purpose
 - identifies for user new products added to this version/update
 of Project Harvest
- B. Operation
 - 1. currently under development and inactive
- C. References to drawings
 - 1. block 206 in Fig. A
- 15 XXIV.Product selection Screen
 - A. Purpose
 - 1. allows user to identify specific products of interest for further review
 - B. Operation
- 20 all products classified by major category, minor category and item list
 - 2. macro search
 - a. user scrolls major categories and clicks on choice to open minor categories
 - b. user scrolls minor categories and clicks on choice to open item list
 - c. user scrolls item list and clicks on product to move it to move it to product selection list

			u. user r selection	ons
		3.	key word sear	ch
			a. user e	nters combination of words which computer
5				es against all product descriptions
			(1)	can use wild card operators - and, or, not, etc.
			b. all mat	ches appear in item list
				rolls item list and clicks on product to move it
				uct selection list
10			d. user re	epeats process to build full list of product
			selection	-
		4.	hs (harmonize	d system) search
				ters up to 6 digits of hs code which computer
				s against all product hs codes
15			(1)	can use (asterisk) wild card operator
			b. all mate	hes appear in item list
			c. user scr	olls item list and clicks on product to move it
				ict selection list
			d. user re	peats process to build full list of product
20			selection	-
	C.	Butto	ns	
		1.	view all produc	ts
			a. enables	user to scroll major/minor/products for all
				s in database
25		2.	view new produ	acts
			a. enables	user to scroll major/minor/products for
		•	products	new to current version
		3.	remove item	
		4.	clear list	

		5 .	product review	
			a. advance user to next screen	
		6.	main menu	
	D.	Pull-	own	
5		1.	search language	
		•	a. allows user to change on	the fly language of
			major/minor/product display to	
			(1) English	
			(2) French	
10			(3) German	
			(4) Spanish	
			(5) Italian	
			(6) Portuguese	
	E.	Referen	es to drawings	
15		1. bl	k 202 in Fig. A	
		2. Fi	14-17	
	XXV. Proc	duct Rev	v Screen	
	A.	Purpo		
		1.	allows user to review all details of sup	plier product offerings
20	B.	Opera	on	
		1.	program searches database and displa	ys product information
			pased on user input	
			user inputs through pull-dow	m menus and button-
			controlled pop-up windows	
25		2.	nformation displays in color graphics	and text boxes
		3.	ser selects product for review from p	roduct description pull-
			lown	

product appear on map

a.

dots representing all suppliers capable of supplying

		4.	user selects package size from pull-down
			a. dots of suppliers incapable of supplying chosen
			package size dimmed/inactivated on map
			b. program defaults to display of metric size equivalent
5			c. user can change on the fly between metric and English
			units
		5 .	user selects product from pull-down
			a. dots of suppliers incapable of supplying chosen grade
			dimmed/inactivated on map
10		6.	user selects brand from pull-down
			a. dots of suppliers incapable of supplying chosen brand
			dimmed/inactivated on map
		7.	user clicks on remaining supplier dots to display specific
			supplier information
15			a. assists user in differentiating between available
			suppliers
			(1) supplier information
			(2) ingredients
			(3) nutritional information
20			(4) product procurement calendar
			(5) case and pallet dimensions
		8.	user displays detail or brand label by clicking on picture to
			zoom in/zoom out
	C.	Butto	ns
25		1.	add this product
			a. opens pop-up windows for accumulation of additional
			user input
			b. adds product and user inputs to list for incorporation
			into RFQ

		2. comments
	•	3. print this screen
		4. clear screen
		5. next product
5		6. previous product
		7. product selection
		8. exit review
		a. option 1: resume from point of interruption
		b. option 2: resume from beginning of review list
10	D.	Pop-Up Windows
		1. capture user input about the product
		a. user interest level
		b. specific product requirements
		c. timing of order initiation
15	•	d. desired target price
		e. samples requested
		f. label production assistance
	E.	References to drawings
		1. block 220 in Fig. A
20		2. Figs. 18-22
	XXVI.Imp	ort Comments
	A.	Purpose
		 allows user to communicate specific needs relative to entire
		RFQ and/or ultimate purchase order
25	B.	Operation
		 free flow text entry field
		2. pre-set list of question with yes/no radio button answers
	C.	Buttons
		1. previous

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		29		
	2.	continue		
	3.	product review		
XXVII.Sele	ection I	Review		
A.	Pur	pose		
	1.	allows user to review all input selections prior to compilation		
		into RFQ		
B.	Ope	Operation		
	1.	if user chooses not to review, program accepts selections as		
		inputted, and:		
		a. prepares print output of preformatted fax RFQ, or		
		b. prepares text file for RFQ transmission as e-mail		
	2.	if user chooses to review, goes to review pop-ups		
C.	Butte	Buttons		
	1.	review		
	2.	e-mail		
	3.	print/fax		

- D. Pop-up Windows
 - 1. company information
 - user can change information in these text fields, pulla. down menus on this pop-up
 - 2. buyer contacts
 - user can change information in these text fields, pulla. down menus on this pop-up logistical preferences
 - 3. logistical preferences
 - user can change information in these text fields, pulla. down menus on this pop-up
 - 4. product selections
 - only information in text fields and pull-down menus a. can be changed on this pop-up

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- b. user returned to Product Review screen to change information derived from product database
- 5. importer comments
 - a. user can change information in these text fields, pull-down menus on this pop-up
- A. References to drawings
 - 1. blocks 222 and 226 in Fig. A
 - 2. Figs. 23-36

XXVIII. Creation and Transmission of RFQ

- 10 A. Purpose
 - 1. Compiles information into an RFQ and transmits RFQ to trade-facilitating hub
 - B. Operation
 - 1. if RFQ was not already created, RFQ is created
 - 2. user may choose to review RFQ in local language
 - 3. transmits or prints RFQ via:
 - a. fax
 - b. electronic mail (via internet)
 - c. mailing a hardcopy
- A. References to drawings
 - 1. blocks 224 and 228 in Fig. A
 - 2. Figs. 37 and 38

Another way of understanding the invention is using software which would be used at the user's site. Attached to the priority application are four 3½" diskettes containing a user program made in accordance with a preferred embodiment of the invention. A microcomputer must at least have the following technical specifications effectively to run this program: IBM-compatible Personal Computer (PC) with VGA graphics capability (minimum resolution of 640 x 480)

and with MICROSOFT WINDOWS 3.1 or later (or equivalent) operating system. To load the program the following instructions should be followed:

- 1. In File Manager, create a new directory called "ITG" under drive C;
- 2. In File Manager, copy the entire contents of diskettes 1-4 into the ITG directory;
- 3. Return to Program Manager;
- 4. Create a new Group and call it "PROJECT HARVEST" by typing that name in the Description box;
- 5. In the Command Line box type the following: "C:\ITG\MTB30RUN.EXE IPR1031Z.TBK";
- 6. Click on Change Icon button; Click on the Browse button and go to the ITG directory; In that directory, select "ITG.ICO";
- 7. Click on OK buttons to return to Program Manager's main screen;
- 8. An ITG icon should be seen in the "PROJECT HARVEST" group; the program may be executed by double-clicking on the icon; note that some buttons are inactive.

While the preferred embodiment and best mode of the invention have been disclosed, variations and changes may be made without departing from the spirit and scope of the invention.

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I CLAIM:

- 1. A product selection and ordering system that allows a buyer to select desired products from a directory of products offered by suppliers, and to transmit an order for such selected products from a corresponding supplier, comprising:
- a communication network linking such a buyer and such suppliers, which network includes a buyer interface;
- a directory of products offered by the suppliers, which directory is located on the network; and

wherein the buyer interface allows the buyer to specify a multipleproduct order from a buyer-chosen supplier, and to transmit the order to the buyerchosen supplier.

2. The system of paragraph 1, wherein the network also links an intermediary with the buyer and suppliers, and the network includes an intermediary interface that allows the intermediary to receive the multiple-product order from the buyer and to transmit the multiple-product order to the buyer-chosen supplier.

- 3. The system of paragraph 1 wherein the buyer interface allows the buyer to specify plural multiple-product orders from buyer-chosen suppliers, and to transmit together the plural multiple-product orders to the buyer-chosen suppliers.
- 4. The system of paragraph 2 wherein the buyer interface allows the buyer to specify plural multiple-product orders from buyer-chosen suppliers, and to transmit together the plural multiple-product orders to the intermediary, and the intermediary interface allows the intermediary to receive the plural multiple-product orders from the buyer, and to transmit the multiple-product orders to the buyer-chosen suppliers.
- 5. The system of paragraph 4 wherein the network links plural buyers and includes plural buyer interfaces.

6. A method of allowing a buyer to select desired products from a directory of products offered by suppliers, and to order such selected products from a corresponding supplier, comprising:

providing a communication network linking such a buyer and such suppliers;

including in the network a buyer interface;

placing on the network a directory of products offered by the suppliers; and

allowing the buyer to specify a multiple-product order from a buyerchosen supplier, and to transmit the order to the buyer-chosen supplier.

- 7. The method of paragraph 6, wherein the providing step further includes the substep of making a network link with an intermediary, and wherein the method further includes having an intermediary interface on the network to allow the intermediary to receive the multiple-product order from the buyer and to transmit the multiple-product order to the buyer-chosen supplier.
- 8. The method of paragraph 6 wherein the including step includes a buyer interface that allows the buyer to specify plural multiple-product orders from buyer-chosen suppliers, and to transmit together the plural multiple-product orders to the buyer-chosen suppliers.

- 9. The method of paragraph 7 wherein the including step includes a buyer interface that allows the buyer to specify plural multiple-product orders from buyer-chosen suppliers, and to transmit together the plural multiple-product orders to the intermediary, and the making substep includes making an intermediary interface that allows the intermediary to receive the plural multiple-product orders from the buyer, and to transmit the multiple-product orders to the buyer-chosen suppliers.
- 10. The method of paragraph 4 wherein the providing step provides a communication network that links plural buyers and includes plural buyer interfaces.

- 11. A language-variable product selection and ordering system that allows a buyer to select desired products from a directory of products offered by suppliers, and to transmit an order for such selected products from a corresponding supplier, comprising:
- a communication network linking such a buyer and such suppliers, which network includes a buyer interface;
- a directory of products offered by the suppliers, which directory is located on the network;
- a language translator located on the network for translating the directory into a buyer-chosen language, and for translating such an order; and

wherein the buyer interface allows the buyer to choose a language for the directory, to review the directory in the buyer-chosen language, to specify a multiple-product order from a buyer-chosen supplier, to choose a language for the order, and to transmit the order to the buyer-chosen supplier.

12. The system of paragraph 11 wherein the directory exists in a code that is not a language spoken by humans.

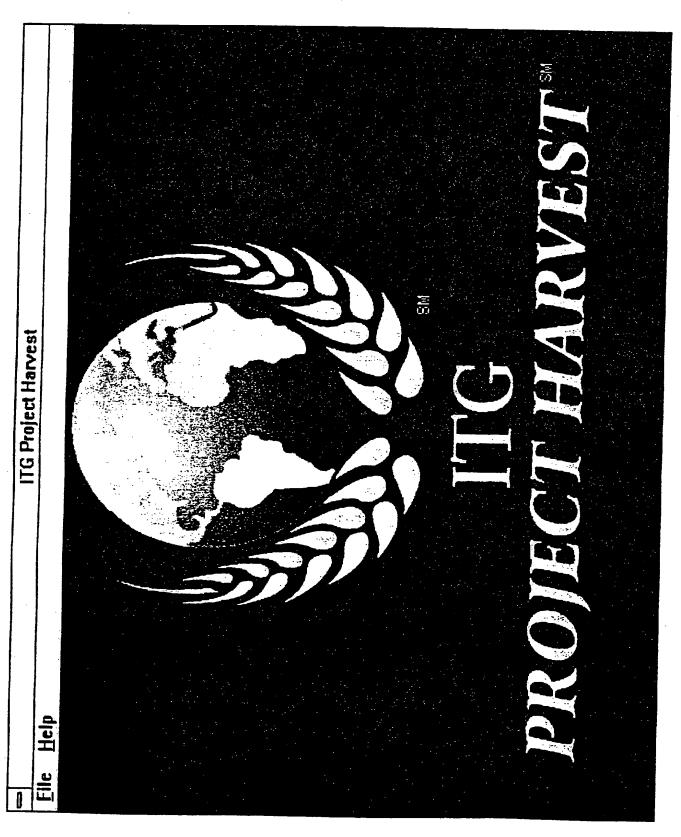
- 13. A language-variable product selection and ordering system that allows a buyer to select desired products from a directory of products offered by suppliers, and to transmit an order for such selected products from a corresponding supplier, comprising:
- a communication network linking such a buyer, such suppliers and an intermediary, which network includes a buyer interface and an intermediary interface;
- a directory of products offered by the suppliers, which directory is located on the network;
- a language translator located on the network for translating the directory into a buyer-chosen language; and

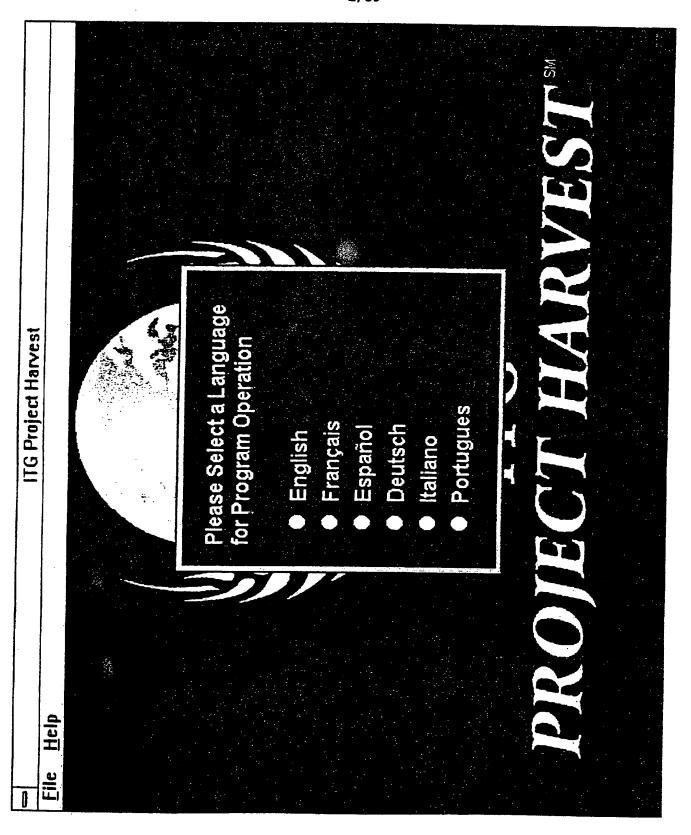
wherein the buyer interface allows the buyer to choose a language for the directory, to review the directory in the buyer-chosen language, to specify a multiple-product order from a buyer-chosen supplier, and the intermediary interface allows the intermediary to receive the multiple-product order from the buyer and to transmit the multiple-product order to the buyer-chosen supplier.

14: The system of paragraph 13 wherein the buyer interface allows the buyer to specify plural multiple-product orders from buyer-chosen suppliers, and to transmit together the plural multiple-product orders to the intermediary.

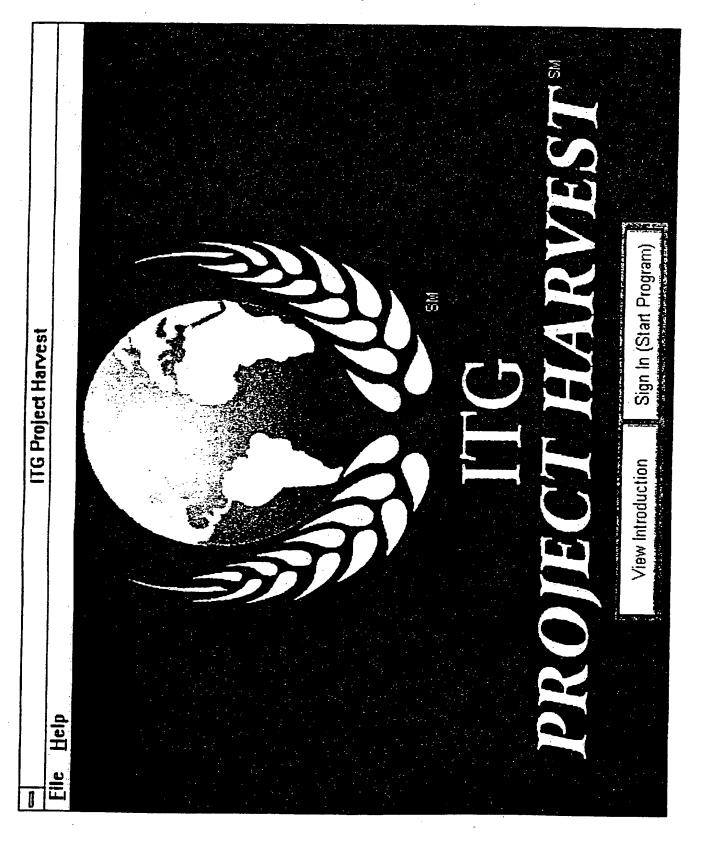
- 15. The system of paragraph 14 wherein the buyer interface allows the buyer to specify plural multiple-product orders from buyer-chosen suppliers, and to transmit together the plural multiple-product orders to the intermediary, and the intermediary interface allows the intermediary to receive together the plural multiple-product orders from the buyer, and to transmit the multiple-product orders to the buyer-chosen suppliers.
- 16. The system of paragraph 15 wherein the network links plural buyers and includes plural buyer interfaces.

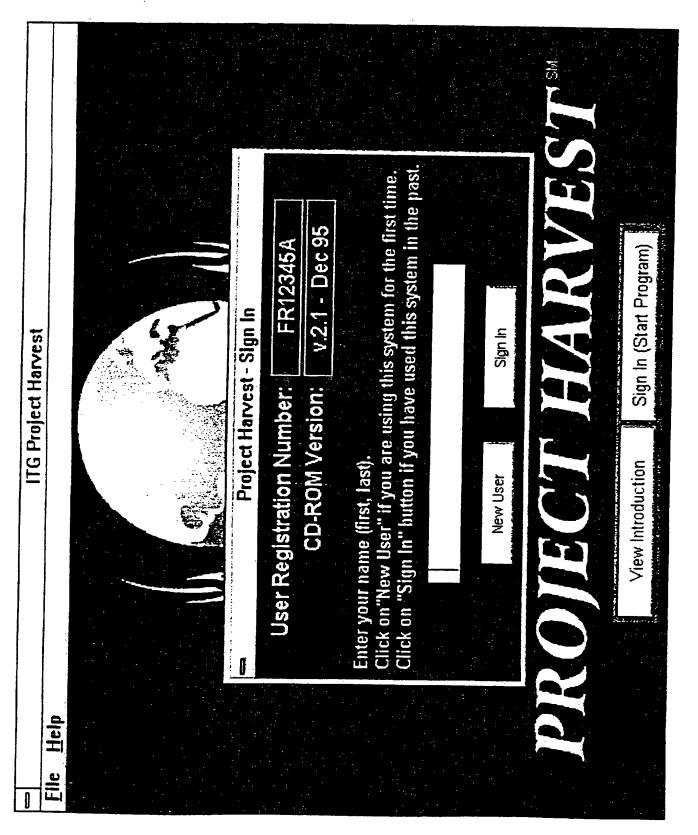
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ITG Project Harvest	G To Maryest To User Registration	Foreign Country Importers	Retail Food Product Stores	Wholesale Distribution to Food Retailers	Buying/Trading Organization Cooperative Procurement Organization	Food Services Wholesale Distribution to Food TOTAL	Mass Merchandiser Drug & Kon-Food Retailer	
	TTG Project Ha			3				

IIG Project Harvest	Registration	o provide information about your company. completed a line of information, use the TAB key to continue.	Դ - Company Information	Mailing Address	City	State	Country	ë	E-Mail	% of Sales Retail Stores No. Employees How Long in Business S	Click on the "Continue" button after you Continue have completed the information above.
	User Re	Use the spaces below to provide information NOTE: Once you have completed a line of in	Retail Food Chain - Compan	Street Address	City	State	Country Postal Code		Fax	Total Annual Sales Imports as % of Sales Re	Previous Clic haw

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		F BUYER No. 5 No. 5 KT BUYING PESPONSIB			ORY Bakery Items ORY			JR PRODUCT BUYING RESPONSIBI 67 SOFTER A JESKA MENDINGER	'button after you ormation above.
ITG Project Harvest	gistratio	Buyer Buyer No. 3 No. 4	· 하	Remove Item	MAJOR CATEGORY MINOR CATEGORY	A Bread A Buns A Cookies	Pastries Pastries	SELECT YOU	Click on the "Continue" button after you have completed the information above.
DIO	Jser Reg	Buyer No. 2						ज दा हुंगी	ے د
e	Harress	ary Buyer Bot No. 1					sstal Cade II Addjeog	Ados a bues 🔲	sn
	ITG TO	Primary Confect	Title Phorte #	Fak# Street	Address City	State Country	Postal C Fujj E Mali Addy		Previous

arvest	#Ion	ofile	Credit References		FAX		Trade References		FAX	(Management April 1995年)では、1995年(1995年)では、1995年(1995年)では、1995年)では、1995年(1995年)では、1995年)には、1995年	FAX		FAX	Click on the "Continue" button after you	mass completed the Information above.
IIG Project Harvest	Registra	ain - Operations Profile		Bank	Contact	Account		Company	Contact	Company		Company	Contact	Click on the 'K	neiding came
	Project Harress	Retail Food Chain - Op	Retail Store Locations	Select Country Markets								Remove Hem		Previous	

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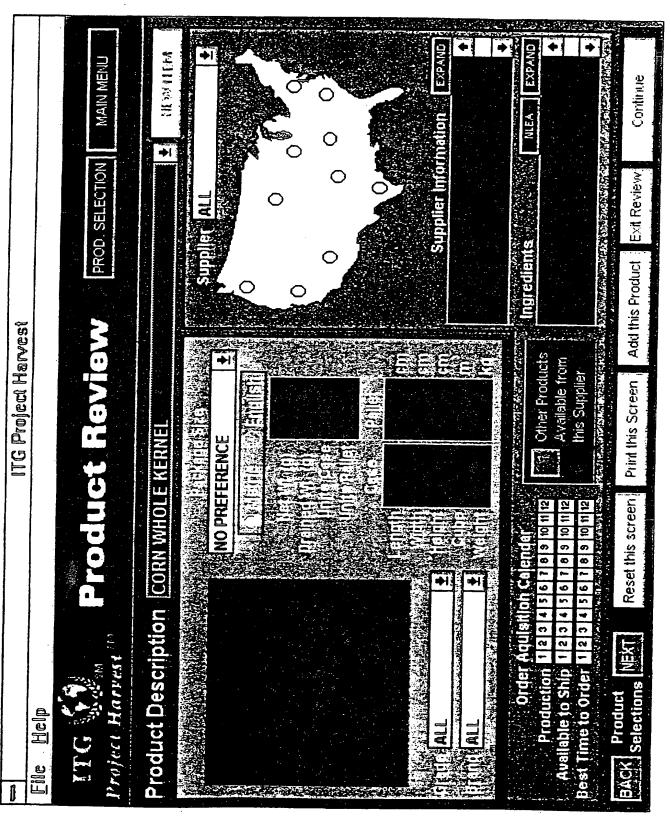
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Baby Reeds	
Baking Mixes	
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nd change bed his beauty	→
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Search Language English	Click here to review details Product Review
	of product selections.

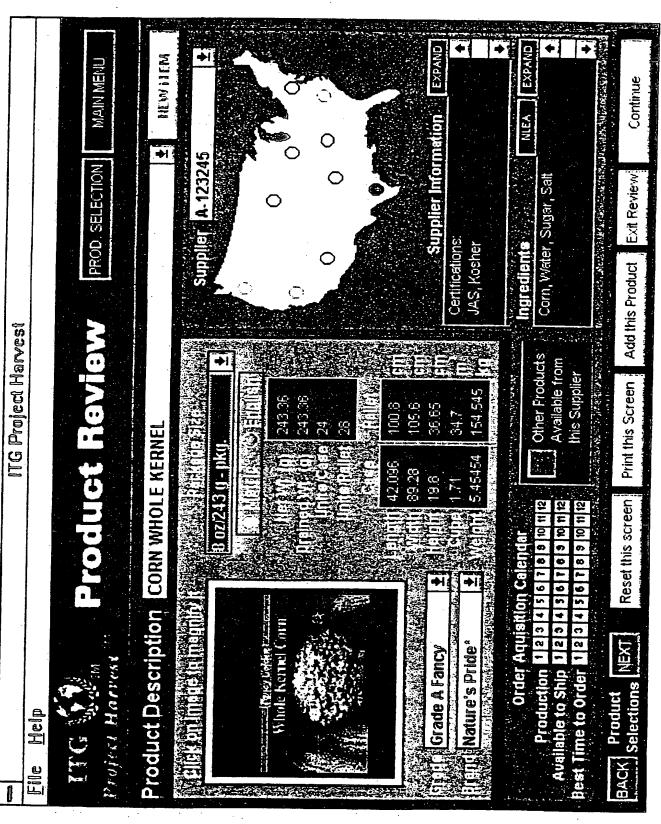
	D.II. MAIN MENU	HS Code or Key Word Search Start Search		A Clear List 등	Click here to review details of product selections.
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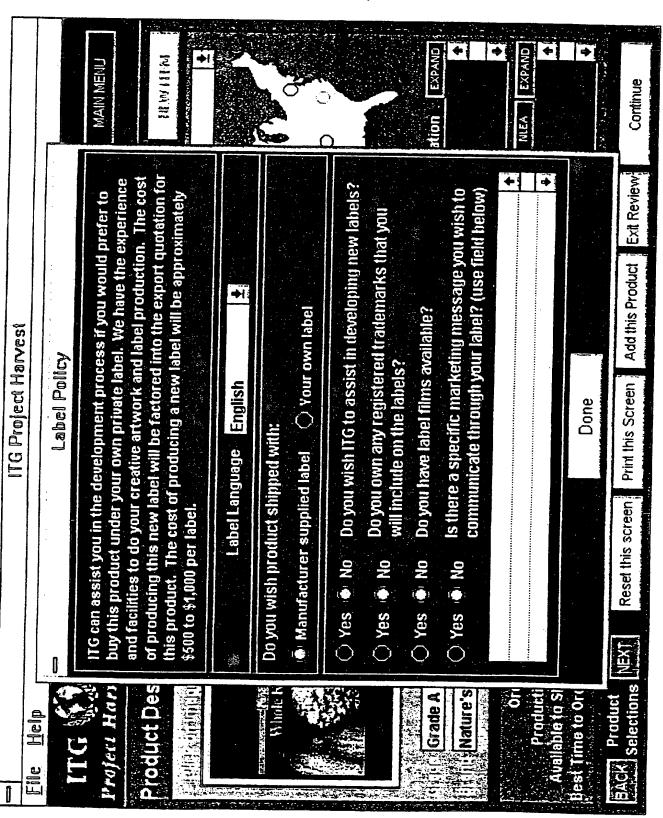


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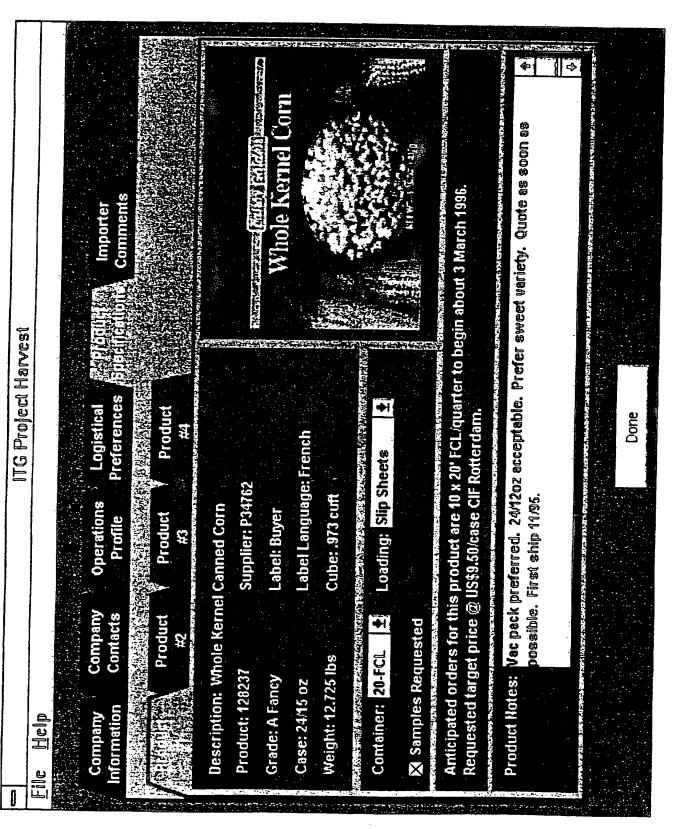
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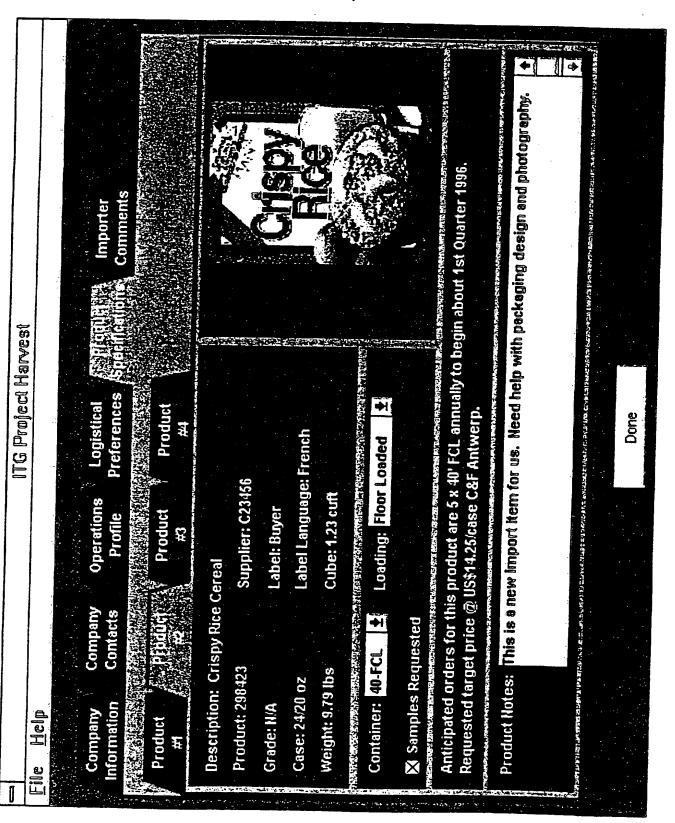
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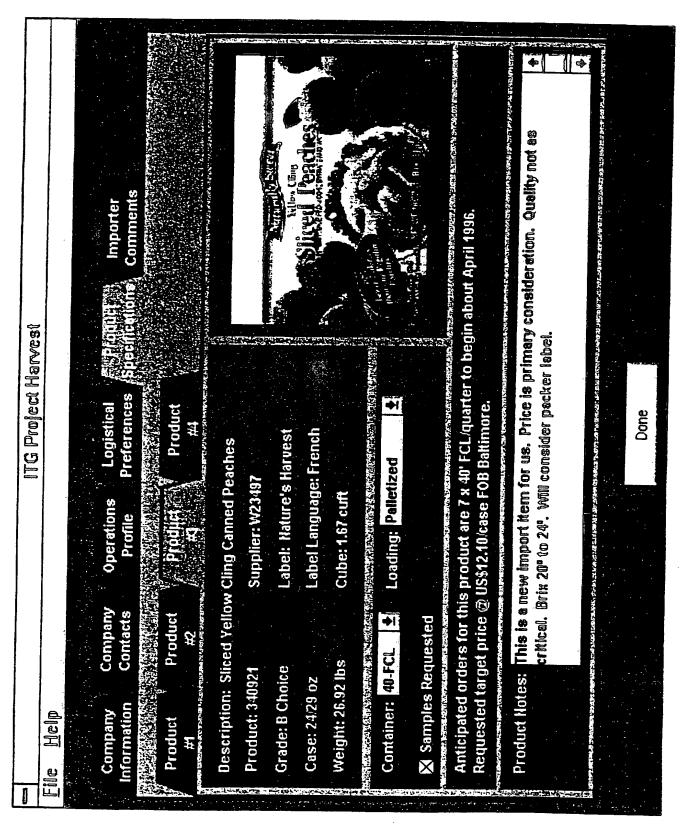
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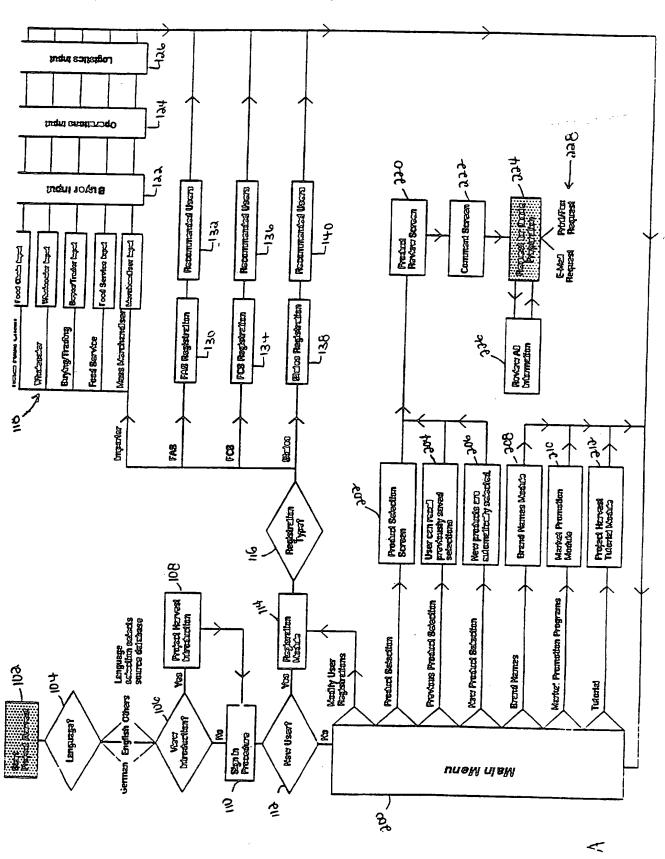
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INTERNATIONAL SEARCH REPORT

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Category®	Citation of document, with indication, where	appropriate, of the relevant passag	Relevant to claim No.
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